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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/679,950	10/06/2003	Marcel Hunn	33635/US	3584
759	90 08/14/2006		EXAMINER	
David E. Bruhn			MACNEILL, ELIZABETH	
Dorsey & Whitney LLP				
Intellectual Property Department			ART UNIT	PAPER NUMBER
50 South Sixth Street, Suite 1500			3767	
Minneapolis, MN 55402-1498			DATE MAILED: 08/14/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

			
	Application No.	Applicant(s)	
Office Action Commons	10/679,950	HUNN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Elizabeth R. MacNeill	3767	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period way a failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be ting 17 iiii apply and will expire SIX (6) MONTHS from 18 cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status .			
1)⊠ Responsive to communication(s) filed on <u>05/02</u>	2/2006		
·_ ·	action is non-final.		
3) Since this application is in condition for allowar		rescution as to the merits is	
closed in accordance with the practice under E	•		
closed in accordance with the practice under E	x parte quayre, 1909 C.D. 11, 4	00 0.0. 210.	
Disposition of Claims			
4) Claim(s) 1-21 and 26-52 is/are pending in the a	application.		
4a) Of the above claim(s) 9,12,15,17,18,22-25,	<u>28-32,34,36 and 38-52</u> is/are wit	hdrawn from consideration.	
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-8,10,11,13,14,16,19-21,26,27,33, 3</u>	5 and 37 is/are rejected.		
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers	·		
9) The specification is objected to by the Examine	_		
· ·		I to by the Eveniner	
10) The drawing(s) filed on <u>06 October 2003</u> is/are:		-	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct	-, -	•	•
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P1O-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat ity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attrohmont/ol			
Attachment(s)	4) Interview Summary	/PTO_413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔛 Interview Summary Paper No(s)/Mail D		
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	· —	Patent Application (PTO-152)	
Paper No(s)/Mail Date <u>01/17/2006</u> .	6)		

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Species I in the reply filed on 2 May 2006 is acknowledged. The traversal is on the ground(s) that all the claims read on the elected species. This is not found persuasive because in the description of figures 1a and 1b of Species I, it is specified that the outer material of the cannula is dissolved after application and is of a greater hardness than the inner material. Additionally, no reference to a curved or bent cannula is given.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 8 recites the limitation "said polymer" in reference to claim 6. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- 5. Claims 1-7,10,11,13,14,16,19-21,26,27,33, 35 and 37 are rejected under 35 U.S.C. 102(b) as being anticipated by IWATSCHENKO (US #4,306,563).

Regarding claim 1, Iwatschenko teaches "A cannula (2) which increases in pliability during application, wherein, prior to application, said cannula comprises one a material

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of a first variable hardness (8) and a second material having a second hardness (2), of which said material having the greater hardness is at least partially dissolved during use." See Col 3 lines 20-25 and Claim 1.

Regarding claim 2, the hardness of the material of first variable hardness decreases during use, due to dissolving (Col 1 lines 54-62)

Regarding claim 3, the two materials are a composite (Fig 1)

Regarding claim 4, the outer material, which dissolves during use, is the hardest material (Col 3 lines 20-25)

Regarding claim 5, the composite is a solid-state material (plastic, Col 1 line 9) and an organic polymer (PVA, Col 3 line 10)

Regarding claim 6, the dissolving material is water-absorbing (Col 3 line 15)

Regarding claim 7, the water-absorbing material is a polymer (PVA)

Regarding claim 10, the cannula contains a material of lower hardness (2) than the dissolving material (8)

Regarding claim 11, the material of first variable hardness at least partially surrounds the material having a lower initial hardness (Fig 1)

Regarding claim 13, the hardness of the material of lower hardness does not change during use (plastic, Col 1 line 9)

Regarding claim 14, the material of greater hardness surrounds the material of lower hardness (Fig 1)

Regarding claim 16, the material of greater hardness is an absorbable material which dissolves during use (PVA, Col 3 line 10)

Regarding claim 19, the PVA is readily water soluble, and meets the limitation of the applicants specification regarding the preferred materials as disclosed in the specification.

Regarding claim 20, the material having the greater hardness is removed during use (by dissolution)

Regarding claim 21, are separated by layers (Fig 1)

Regarding claim 26, Iwatschenko teaches "A cannula that increases in pliability during use, wherein prior to use the cannula comprises at least one material of variable hardness (8), said at least one material dissolved during use" (Col 3 line 10)

Regarding claim 27, Iwatschenko teaches "A cannula that increases in pliability during use, wherein prior to use the cannula comprises at least two materials of differing hardness (2 and 8), of the material having the greater hardness is dissolved during use" (Col 3 line 10)

Regarding claim 33, Iwatschenko teaches "A cannula that increases in pliability during use," wherein the cannula comprises a water-absorbing material (PVA, 8) of a first variable hardness that decreases in hardness upon water absorption (Col 3 line 8) and a material having a second hardness (plastic)

Regarding claim 35, the water absorbing material has polar functional groups (acetate Col 3 line 11)

Regarding claim 37, the water-absorbing material is the outer material of the cannula, and the material having the second hardness is the inner material of the cannula.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth R. MacNeill whose telephone number is (571)-272-9970. The examiner can normally be reached on 7:00-3:30pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Sirmons can be reached on (571)272-4965. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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KEVIN C. SIRMONS SUPERVISORY PATENT EXAMINER

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